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University of California
College of Agriculture
Agricultural Experiment Station
Berkeley, California

SEASONAL LABOR NEEDS FOR CALIFORNIA CROFS

STANISLAUS COUNTY

Progress Report No. 50

by

R. L. Adams

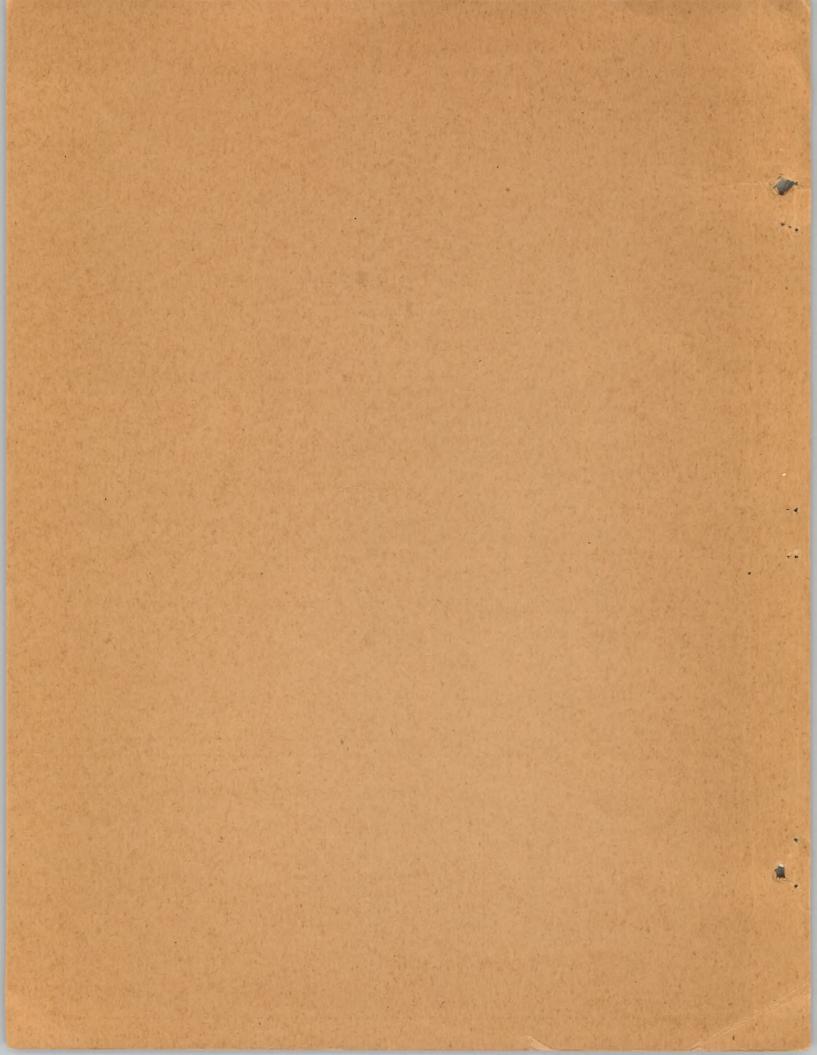
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March, 1937

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(Farm Labor Survey -- July-December, 1936)

Progress Report No. 50

Seasonal Labor Needs for California Crops

Stanislaus County

Scope of Presentation -- The following considerations govern the presentation of this progress report:

- 1. The data are confined to the area indicated above.
- 2. The data are confined solely to crops, livestock needs being ignored.
- 3. The findings apply only to occasional or seasonal labor requirements as distinguished from labor contributed by farm operators and by workers employed on a year-round or regular basis of employment.
- 4. Attention is concentrated upon workers required for hand tasks -- planting, thinning, weeding, hoeing, and harvesting -- without including teamsters, tractor drivers, irrigators, and shed packers of vegetables or fruits.
- 5. The presentation includes the so-called migratory, transient, or roving workers which comprise an important source of help needed in connection with certain tasks and at "peak" times which seasonally arise in connection with many field, truck, and fruit crops commercially produced in California.
- 6. This report is confined to California's need for seasonal agricultural workers because of the more pressing problems liable to arise in connection therewith. A later study is planned which will deal with other kinds of labor involved in the production of California's many crops.

Crops, Acreage, and Production. -- The basis used in calculating occasional or seasonal need for labor, in addition to that furnished by farm operators and regularly employed workers, appears as table 1.

TABLE 1

Basis for Calculating Seasonal Labor Requirements
Stanislaus County

Crop	Acreage*	Production
D4 - 1 4 aman a		
Field crops:	00 420+	700 700 t t/
Alfalfa		322,199 tons (average 4.8 tons per acre)
Beans	47,134 +	424,200 cwt.
Cotton	730	452 bales \$
Flax	1,320	
Grain barley	70,254+	1,357,746 bushels +
oats	5,271	180,871 bushels
wheat	24,796	346,201 bushels
Grain hay	21,119†	35.943 tons †
Pasture Ladino clover	9,783	
Sudan grass	5,178	
native pasture	423,770	
Rice	3,904	
Silage corn		Average 7 tons per acre
Sorghums for grain		140,385 bushels t
		Table continued on next page.

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Stantelaug County

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- 4. Attention is concentrated upon workers required for hand tuste -- dianting, thinning, medding, hoting, and harvesting -- without including teamstors, trueter drivers, irrigators, and shed packers of vegetables or fruits.
- 8. The preportation includes the so-called migratory, Granstone, or rowing morkers which comprise an important source of help needed in connection with cortain tasks and at "peak" times which seasonally arise in connection with carry field, truck, and fruit crops commercially produced in California.
- 6. This report is confined to California's meed for second agricultural workers because of the more pressing problems liable to enlar in consaction there with a later study is planned which will deal with other kinds of Jabor involved in the production of California's many crops.

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Basis for Calculating Seasonal Labor Requirements Stanisless County

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	8,804	
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140 335 bushels L		Serebuno for grain

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* *** ** *** ***

Crop	Acreage*	Production		
Current banks (II)				
Sugar beets 9 Vegetable crops:	n			
Carrots fall and winter	100++	27,500 crates		
Lettuce fall		Average 150 crates per acre		
Molons cantaloupes	2,179	326,850 crates		
honeydews, Persians,	0,110	020,000 014008		
and casabas	3,598	35,980 tons t+		
watermelons				
Onions intermediate crop		60,000 sacks of 50 pounds each		
Peas canning		3,954 tons		
spring	++	Average 150 hampers per acre		
fall	7+	Average 50 hampers per acre		
Spinach		7,890 tons		
Sweet potatoes		290,500 crates		
Tomatoes canning		10,828 tons		
fall market ¶ Fruit and nut crops:	100**			
Apples A				
Almonds	5,072	760 tons		
Apricots	5,489	22,000 tons (7,200 tons (fresh weight)		
191 10006	0,400	canned		
		13,800 tons (fresh weight)		
		dried dried		
		1,000 tons (fresh weight)		
		shipped		
Cherries #		450 tons (300 tons barreled		
		150 tons shipped		
Figs	1,061 {	450 tons (fresh weight) shipped		
		800 tons Kadota (fresh weight)		
		500 tons dried (dry weight)		
Grapes raisin	5,200	2,500 tons table grapes shipped by rail		
table	1,921	36,100 tons wine grapes shipped by rail 4		
wine	11,630	14,000 tons raisins (fresh weight) natural		
		6,000 tons raisins (fresh weight) dehy-		
		drated		
Olives 9	227	44,876 tons to winories 92 tons canning)		
	221	28 tons not canning) 120 tons		
Peaches clingstone	6,549	60,000 tons (of which 15,000 tons fresh		
	0,020	weight were dried)		
freestone	3,018	13,500 tons (8,000 tons (fresh weight)		
		dried		
		1,500 tons (fresh weight)		
		shipped		
		4,000 tons (fresh weight)		
		canned		
Pears 4		250 tons		
Prunes 4	2 40.	1,800 tons (fresh weight)		
Walnuts	3,484	\$1,721,700 pounds merchantable h		
Blackberries 4	4	352,637 pounds culls estimated		
Raspberries ¶		Market and the state of the sta		
Strawberries #	40**			
	* エンケイ			

^{*} Acreage data based on unpublished data compiled by California Agricultural Extension Service from material furnished by California Cooperative Crop Reporting Service, irrigation districts in the county, and other available sources. October 21, 1935.

Table continued on next page.

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Berrice, irrigation districts in the county, and other available nowness. Cotober
21, 1935.

† Data from 1935 Census for crop year 1934.

It is estimated that approximately 60 per cent of the total acreage was of the black-eye variety.

Data from California Cooperative Crop Reporting Service. Final California cotton report for the 1935 crop. Sacramento, May 26, 1936, 1p.

A Need for seasonal labor on these crops inconsequential and hence ignored.

About 150 acres of sugar beets were grown in 1936, and apparently the acreage will increase in the future.

** Data from Federal State Crop Reporting Service -- Sacramento. Acreage of specified commercial vegetable crops by counties. 1935.

† † Estimated to be 55 per cent honeydews 33 per cent Persians 12 per cent casabas

7 # No pea acreage reported for 1935, but a considerable acreage was grown in 1936.

Due to lack of assembled data, fig production was estimated from various sources for use in this report.

Figured at 13 tons per car.

// // Drying ratio: clingstone peaches - 7.5 to 1 freestone peaches - 6 to 1 raisins - 4 to 1

3 Estimate by California Olive Association.

b Data from Walnut Control Board -- culls estimated to be 17 per cent of total crop -- state average.

Operations Requiring Seasonal Labor and Times of Need. -- Farm operations requiring the use of seasonal labor for the various crops raised in Stanislaus County are indicated in table 2. This tabulation does not include the employing of shed workers needed to wash, pack, and prepare various commodities for shipping and marketing.

† Date from 1935 Census for evop year 1934.

Fit is setimated that approximately 60 per cent of the total acrongs was of the block-eye vertety.

A Data from California Cooperative Crop Reporting Service. Final California Cotton Papert for the 1855 crop. Sagramento, May 26, 1856, 1p.

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About 150 agree of sugar beets were grown in 1936, and arrangely the sare-

** Data from Federal State Crop Reporting Service -- Sacramento. Acrosgo of appointed commercial vegetable crops by counties. 1935.

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† # Mc pea dereage reported for 1955, but a considerable acreage was strown in

Due to lack of assembled data, fig production was entired from various sources, for use in this report.

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Drying ratio: clingstone peaches = 7.5 to 1
Processone peaches = 6 to 1
raisins = 6 to 1

g Estimate by California Olive Association.

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TABLE 2

Operations Requiring Use of Seasonal Labor and Times of Needs by Crops
Stanislaus County

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Field crops: Alfalfa Mowing with April 15-30 one-half of commer- tractor acreage cial hay Raking May five-sixths of acreage produc- Shocking with June five-sixths of acreage tion (on rake 50 per July five-sixths of acreage	man-day
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September five-sixths of	
acreage	
October five-sixths of acreage	
November 1-15 one-half of	
acreage	1
Hauling with April 8 per cent of job	
wagons and May 14 per cent of job	
stacking June 14 per cent of job	
July 14 per cent of job	
	tons
September 14 per cent of job	
October 14 per cent of job	3 - 18.4
November 8 per cent of job	
Beans Hoeing July all of acreage once	otal of
100	3.5 man-
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Crop	Operation	Time of need	work done by seasonal help	Output per man-day
Beans (cont.)	Irrigating 4 times	April all of acreage once June 15-30 75 per cent of acreage July 1-31 all of acreage once, one-half of acreage twice August 1-10 75 per cent of acreage	80	4 acres (12-hour day)
	Piling 90 per cent of black- eye, 10 per cent of other varieties	September 15-30 25 per cent of job October 1-31 50 per cent of job November 1-15 25 per cent of job		2 acres
	Threshing with stationary 90 per cent of black-eye, 10 per cent of other varieties Threshing with		75	35 cwt. (8-hour day)
	pickup combine 10 per cent of black-eye, 90 per cent of other varieties	September 15-30 30 per cent of acreage October 1-31 60 per cent of acreage November 1-15 10 per cent of acreage	50	6 acres
	Hauling to town 50 per cent of crop; other 50 per cent hauled by com- mercial truckers	September 15-30 30 per cent of acreage October 1-31 60 per cent of acreage November 1-15 10 per cent of acreage	100	375 cwt.
Cotton		May 1-31 50 per cent of acreage June 1-30 50 per cent of acreage] 100	2.5 acres
		Octobor 1-31 30 per cent of crop November 1-30 30 per cent of crop December 1-31 12 per cent of crop	100	300 pounds seed cot- ton
		January 1-31 11 per cent of crop February 1-28 10 per cent of crop March 1-15 7 per cent of crop	100	200 pounds seed cot- ton
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Crop	Operation	Time of need	Fer cent of work done by seasonal help	Output per
Flax	Harvesting	June 15-30 20 per cent of acreage July 1-31 40 per cent of acreage August 1-31 40 per cent of acreage	80	5 acres
Grain barley, oats, and	Harvesting with combine	June 1-30 60 per cent of acreage July 1-31 40 per cent of acreage	80	8 acres
wheat	Picking up and piling sacks	June 1-30 60 per cent of acreage July 1-31 40 per cent of	100	500 sacks
	Watchmen	June July August		
Grain hay	Mowing Raking Shocking	May 1-31 all of acreage May 1-31 all of acreage May 1-31 all of acreage	50	8 acres 16 acres 20 acres
Rice	cent of crop "Swathing" with push header	June 50 per cent of job July 50 per cent of job October 1-31 60 per cent of acreage		4 tons
	Threshing with	November 1-20 40 per cent of acreage October 1-31 50 per cent of	50	15 acres
Silage	pickup combine Silo filling	November 1-30 50 per cent of acreage September 1-30 15 per cent	40	4 acres
		of job October 1-31 75 per cent of job November 1-10 10 per cent of job	25*	5 tons
Sorghums for grain	Cutting by hand 10 per cent of acreage	September 15-30 20 per cent of job October 1-31 75 per cent of job November 1-15 5 per cent of	66	0.75 acre
	Threshing with stationary thresher 10 per cent of	job October 1-31 60 per cent of job November 1-30 40 per cent of job	25	50 sacks
	Cutting with combined har- vester 90 per cent of acreage	October 1-31 75 per cent of job November 1-15 25 per cent of job	50	5 acres

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Crop	Operation	Time of noed	Per cent of work done by seasonal holp	Output per man-day
Vegetable crops: Carrots	Weeding Bunching pul-	August 20-31 20 per cent of job September 1-30 65 per cent of job October 1-31 10 per cent of job November 1-15 5 per cent of job November 15-30 8 per cent	100	Total of 33 hours per acre
	ling and tying	of crop December 1-31 56 per cent of crop January 1-31 31 per cent of crop February 1-28 5 per cent of crop		12 crates (of 6 dozon bunches)
Lettuce	Thinning	August 50 per cent of job September 50 per cent of job	} 100	0.5 acro
	Cutting	November 1-30 60 per cent of crop December 1-31 40 per cent of crop January inconsequential amount] 100	30 cratos (packed crates)
Molons	Thinning all melons	May 1-31 95 per cent of acroage Juno 1-30 5 per cent of acroage] 100	10 acres
	Hooing all melons	April 15-30 15 por cent of job May 1-31 45 por cent of job Juno 1-30 40 por cent of job	} 100	5 acros
	Cultivating all melons twice Irrigating all melons three times Picking canta-	April 15-30 one-third of job May 1-31 two-thirds of job May 1-31 50 per cent of job June 1-30 50 per cent of job July 10-31 63 per cent of	90	10 acres (1 man, 2 horses) Requires 4 men to 30 acres
	loupes	crop August 1-31 27 per cent of crop September 1-30 6 per cent of crop October 1-15 4 per cent of crop	100	30 crates (of 68 pounds)

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Crop	Operation	Time of need	Por cent of work done by seasonal help	Output per man-day
Melons (cont.)	Picking honeydews	July 24-31 2 per cent of crop August 1-31 80 per cent of crop September 1-30 16 per cent of crop October 1-15 2 per cent of	100	3½ tons
	Hauling honoydows	crop July 24-31 2 per cent of crop August 1-31 80 per cent of crop September 1-30 16 per cent	75	5 tons
	Picking Persians	of crop Octobor 1-15 2 per cent of crop August 1-31 41 per cent of crop		
	Hauling Persians	September 1-30 43 per cent of crop October 1-31 16 per cent of crop August 1-31 41 per cent of crop	100	3½ tons
	Picking casabas	September 1-30 43 per cent of crop October 1-31 16 per cent of crop August 1-31 27 per cent of crop	75	5 tons
		September 1-30 16 per cent of crop October 1-31 43 per cent of crop November 1-30 14 per cent of crop	100	$3\frac{1}{2}$ tons
	Hauling casabas	August 1-31 27 per cent of crop September 1-30 16 per cent of crop October 1-31 43 per cent of crop November 1-30 14 per cent	75	5 tons
	Picking water- molons	of crop July 1-31 20 per cent of crop August 1-31 70 per cent of crop September 1-30 10 per cent of crop	100	25 tons

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Table 2 continued.

Crop	Oporation	Time of need	Per cent of work done by seasonal help	Output per man-day
Molons (cont.)	Hauling water- melons	July 1-31 20 per cent of crop August 1-31 70 per cent of crop September 1-30 10 per cent of crop	75	8 tons
Onions	Sotting plants by hand	December 1-31 two-thirds of acreage January 1-15 one-third of	100	0.14 acro
	Wooding twice	acroage Fobruary all of acreage	100	Total of a
	Pulling, clipping tops and roots, and sacking	March 25-31 5 per cent of crop April 1-30 30 per cent of crop May 1-31 30 per cent of crop June 1-30 35 per cent of crop	100	15 cwt.
Poas canning	Harvosting with vinors	April 25-30 25 per cent of erop May 1-15 75 per cent of erop	} 75	0.5 acre
markot	Hooing	February 1-28 50 per cent of job March 1-31 50 per cent of job] 100	Total of 1½ man-days per acre
	crop (85 per	April 1-30 two-thirds of job May 1-15 one-third of job October 15-31 50 per cent	100	10 hampors
a	por cent of total)	of job November 1-15 50 per cent of job	100	8 hampers
Spinach can- ning	Harvesting picking up and crating	March 20-31 50 per cent of crop April 1-20 50 per cent of crop	100	2 tons (in 6 hours)
Sweet	Flanting	May 1-31 all of acroago	33	0.6 acre
potatocs	Harvesting picking up and piling	September 1-30 one-third of crop Octobor 1-31 one-third of crop November 1-30 one-third of crop	50	0.15 acre

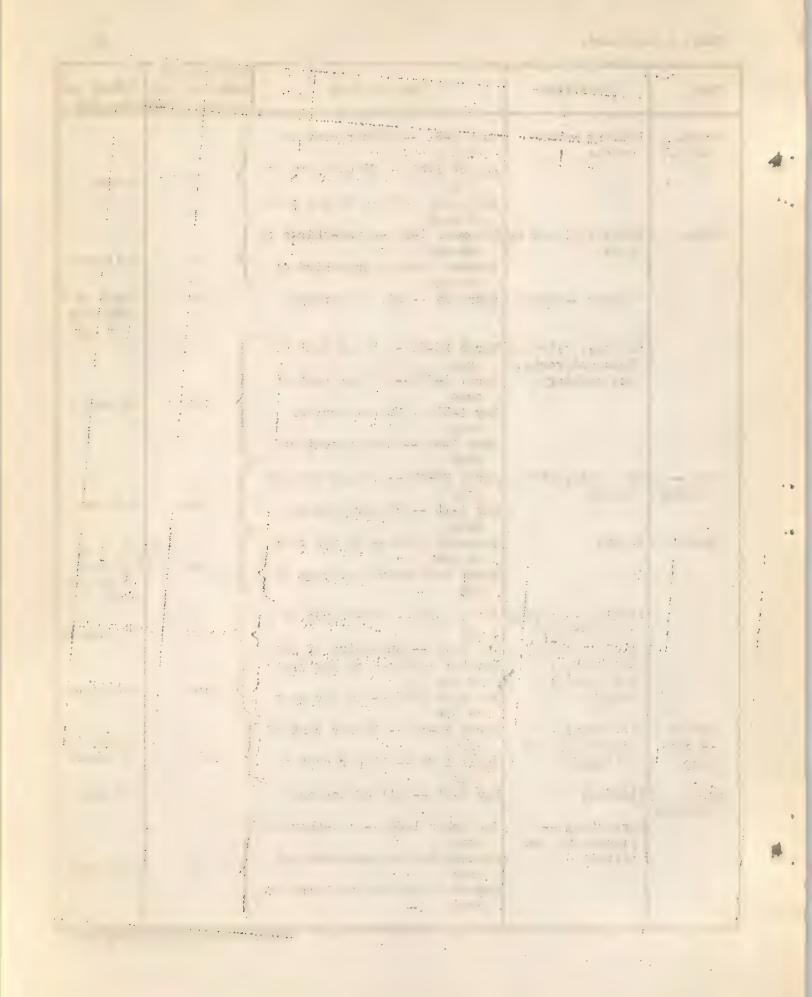
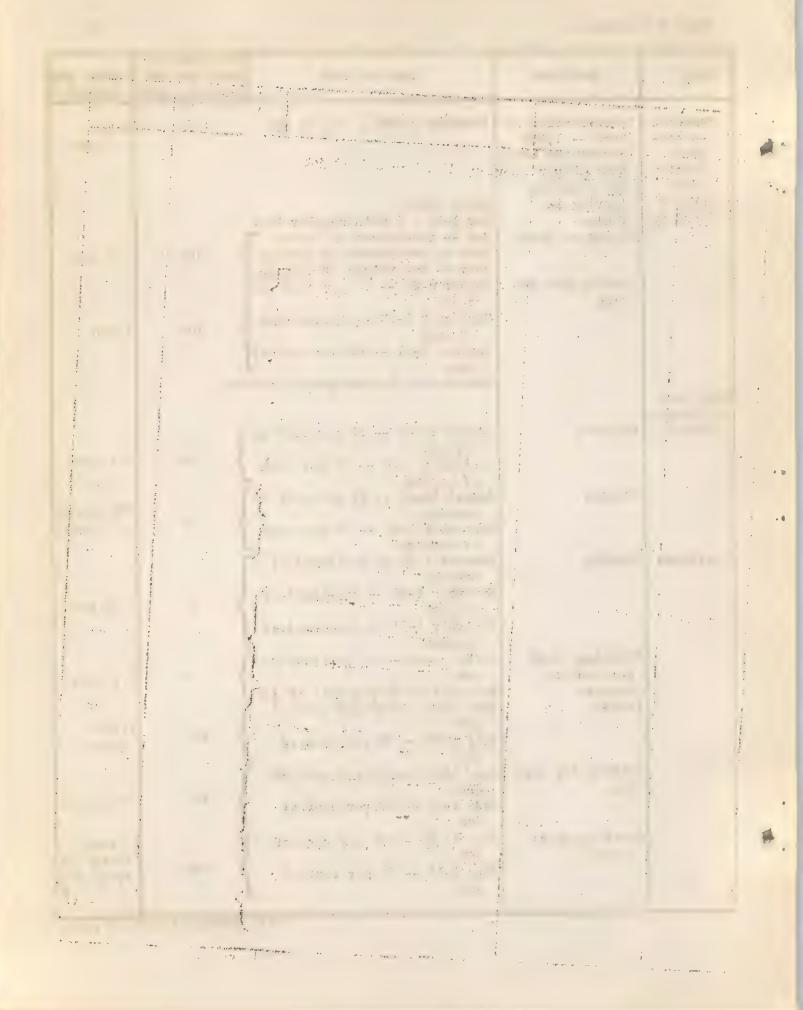


Table 2 c	continued.	<i>*</i> ·	, an	10 .
Crop	Operation	Timo of nood	Per cent of work done by seasonal help	Output por
Tomatoes can- ning (mostly pear- shaped variety)	for replants Planting in		80	4,000 plants
	Ficking for can-	June two-thirds of acreage July two-thirds of acreage August 6-31 15 per cent of crop September 1-30 45 per cent	> 100	1.0 acro
Fruit and		of crop October 1-31 40 per cent of crop November inconsequential amo) 100 ount	l ton
nut crops: Almonds	Knocking	August 10-31 25 por cent of acreage September 1-30 75 por cent of acreage	50	0.4 acre
Apricots	Hulling Pruning	August 10-31 25 per cent of acreage September 1-30 75 per cent of acreage October 1-31 one-third of	75	400 pounds (8 hours)
		acreage November 1-30 one-third of acreage December 1-31 one-third of acreage	90	0.25 acre
	por cent of	April 15-30 50 per cent of job May 1-15 50 per cent of job June 15-30 50 per cent of	90	0.2 acro
		job July 1-15 50 per cent of job	100	1,250 pounds
	ing	June 15-30 50 per cent of job July 1-15 50 per cent of job	100	750 pounds
	labor	June 15-30 50 per cent of job July 1-15 50 per cent of job	90	ll man- hours per fresh ton



			Per cent of	
Crop	Operation	Time of need	work done by	Output por
			scasonal holp	
Figs	ing for shipping	July 15-31 25 per cent of job August 1-31 15 per cent of job September 1-30 55 per cent of job October 1-5 5 per cent of job	100	150 pounds
	Picking Kadotas for canning	August 20-31 20 per cent of job September 1-30 60 per cent of job October 1-31 20 per cent of job	100	400 pounds
	Picking up for drying Mission and Calimyrna	August 15-31 25 per cent of job September 1-30 50 per cent of job October 1-15 25 per cent of job	100	900 pounds
	Drying and sort- ing Calimyrnas	August 15-31 25 por cent of job September 1-30 50 por cent of job October 1-15 25 per cent of job	90	50 hours por dry ton
Grapes	Drying and sort- ing Mission varioty Pruning	August 15-31 25 per cent of job September 1-30 50 per cent of job October 1-15 25 per cent of job December 1-31 10 per cent	90	20 hours per dry ton
25.25	Thompson seed- less variety	of acreage January 1-31 40 per cent of acreage February 1-28 40 per cent of acreage March 1-15 10 per cent of	80	0.25 acre (= 150 vines)
	seedless	acreage December 1-31 10 per cent of acreage January 1-31 40 per cent of acreage February 1-28 40 per cent of acreage March 1-15 10 per cent of acreage	80	2.5 acres

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Crop	Operation	Time of need	Per cent of work done by	Output per
Grapes (cont.)	Pruning other varieties	December 1-31 10 per cent of acreage	seasonal help	man-day
(00110.)	Ficking table	January 1-31 40 per cent of acreage February 1-28 40 per cent of acreage March 1-15 10 per cent of acreage August 15-31 12 per cent of	80	0.66 acre (300 vines)
	grapes for ship- ment includ- ing field pack- ing		100	20 lugs (=560 pounds)
	Picking wine grapes for ship- ment	September 1-30 24 per cent	100	100 lugs (=2,600 pounds)
	Ficking for win- eries and dehy- drators # in- cluding natural raisins	September 15-30 48 per cent of crop October 1-31 48 per cent of crop November 1-10 4 per cent of crop	90	1.75 tons
Peaches all varie- ties		December 1-31 one-third of acreage January 1-31 one-third of acreage February 1-28 one-third of acreage ted under no seasonal labor	90	0.25 acre
	Thinning by hand all varieties	May 1-31 two-thirds of acreage June 1-15 one-third of acreage] 100	0.2 acre
	Ficking and sort- ing clingstones	August 1-31 two-thirds of crop September 1-15 one-third of crop] 100	3,000 pounds
	Cutting for dry- ing clingstones	August 1-31 two-thirds of crop September 1-15 one-third of crop	} 100	800 pounds
	Other dry-yard labor cling- stones	August 1-31 two-thirds of crop September 1-15 one-third of crop	75	ll man- hours per fresh ton

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Crop	Operation	Time of need	Fer cent of work done by seasonal help	Output per man-day
Peaches (cont.)	Picking for ship- ment free- stones	June 24-30 2 per cent of crop July 1-31 23 per cent of crop August 1-31 67 per cent of crop September 1-30 8 per cent	100	2,000 pounds
	ing freestones Cutting for dry- ing freestones	of crop August 1-31 all of job August 1-31 all of job August 1-31 90 per cent of job September 1-7 10 per cent of job	100	3,000 pounds 2,000 pounds 11½ man- hours per fresh ton
Walnuts	Picking for can- ning freestones mostly Lovell variety Harvesting knocking off,	August 15-31 all of job August 15-31 5 per cent of	100	3,000 pounds
	picking up, and hulling	crop September 1-30 35 per cent of crop October 1-31 50 per cent of crop November 1-15 10 per cent of crop	100	200 pounds

^{*} A large part of the work in silo filling is done by exchange of help between farmers.

Findings of Seasonal Labor Needs. -- Details and summaries of seasonal labor requirements of Stanislaus County agriculture are presented as table 3. The "size of task" are figures drawn from table 1, in terms of either acreage or output in tons, crates, boxes, or whatever unit is commonly used. The "output per man-day" is an average figure for the entire acreage or output figured in crates, hampers, boxes, or other units as indicated in the table. If the work is of a nature that requires a crew, different members of which perform different tasks, then the average shown is per man based on the entire crew. Length of day is 9 hours, November to February; 10 hours, March to October; unless otherwise stated. Wide variations in output occur between farm and farm, field and field, and season and season, because of differences in soil types, climatic conditions, weeds, yields, and other factors influencing the amount of work that a laborer can perform in a given day. Moreover, the basis of

[†] From Christie, A. W. and I. C. Barnard. The principles and practice of sundrying fruit. California Agr. Exp. Sta. Bul. 388:40-60. 1925.

[†] Tonnage of natural raisins is small. Only about 2 per cent of Thompson crop used for this purpose. About 80 per cent of Thompson crop dehydrated.

About 75 per cent of walnuts hulled by machine -- 25 per cent by hand.

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output is a mature, experienced male worker without reference to use of women, children, and more or less inexperienced help that is sometimes used in connection with cortain of the tasks requiring use of seasonal workers. The column headed "available days" reflects (a) limitations set from the period within which the work must be performed because of the nature of the task, such as transplanting, thinning, weeding, and cutting, and (b) available days as determined by weather conditions, inclement weather reducing the number of days when a required task can be performed. The "required number of individuals" is given in terms of workers as noted above in connection with "output per man-day."

It is probable that the estimated number of workers required, as recorded in table 3, will often be too low, for the reason that "peaks" frequently occur, during which an unusually large proportion of the job is done in a very short period. This would naturally require a much greator number of workers than when the work is spread over a longer period, even though the total amount of labor (in man-days) remains the same.

TABLE 3

Seasonal Labor Needs -- Stanislaus County -- by Months and Tasks

Ca Or Gr	crop and task otton: Picking arrots: Bunching nions: Setting plants by hand rapes: Pruning (Thompsons) Tying (Thompsons) Pruning (other varieties) eaches: Pruning otton: Picking arrots: Bunching	Size of task 75,000 pounds † 8,525 crates 134 acres 1,600 acres † 1,600 acres † 4,400 acres † 2,870 acres †	man-day 200 pounds 12 crates 0.14 acre 0.25 acre 2.5 acres 0.66 acre 0.25 acre	375 711 958 6,400 640 6,667 11,480 27,231	20 20 10 20 20 20 20 20	19 36 96 (320 32 334 574	(from 1-15)
Ca Or Gr	arrots: Bunching nions: Setting plants by hand rapes: Pruning (Thompsons) Tying (Thompsons) Pruning (other varieties) eaches: Pruning otton: Picking	8,525 crates 134 acres 1,600 acres † 1,600 acres † 4,400 acres † 2,870 acres †	12 crates 0.14 acre 0.25 acre 2.5 acres 0.66 acre 0.25 acre	711 958 6,400 640 6,667 11,480	20 10 20 20 20 20	36 96 (320 32 334 574	
Or Gr	nions: Setting plants by hand rapes: Pruning (Thompsons) Tying (Thompsons) Pruning (other varieties) eaches: Pruning otton: Picking	134 acres 1,600 acres † 1,600 acres † 4,400 acres † 2,870 acres †	0.14 acre 0.25 acre 2.5 acres 0.66 acre 0.25 acre	958 6,400 640 6,667 11,480	10 20 20 20 20	96 (320 32 334 574	
G	rapes: Pruning (Thompsons) Tying (Thompsons) Pruning (other varieties) eaches: Pruning otton: Picking	1,600 acres † 1,600 acres † 4,400 acres ‡ 2,870 acres ‡	0.25 acre 2.5 acres 0.66 acre 0.25 acre	6,400 640 6,667 11,480	20 20 20 20	320 32 334 574	
Pe	Tying (Thompsons) Pruning (other varieties) eaches: Pruning otton: Picking	1,600 acres † 4,400 acres ‡ 2,870 acres ‡	2.5 acres 0.66 acre 0.25 acre	640 6,667 11,480	20 20 20	32 334 574	
Pe	Pruning (other varieties) eaches: Pruning otton: Picking	4,400 acres # 2,870 acres #	0.66 acre 0.25 acre	6,667 11,480	20 20	334 574	
Pe	eaches: Pruning otton: Picking	2,870 acres*	0.25 acre	11,480	20	574	
	otton: Picking						
February Co		67.500 pounds †		27.231	20	1.362 m	
February IC		67.500 pounds t			~0	1 2 000 11	nan-months &
	arrota: Runching	- , , ,	200 pounds	338	22	16	
		1,375 crates	12 crates	115	22	6	
1	nions: Weeding	400 acres	0.25 acre	1,600	22	73	
	omatoes: Transplanting in beds	2,958,464 plants	4,000 plants	740	11	68 (from 15-28)
G	rapes: Pruning (Thompsons)	1,600 acres#	0.25 acre	6,400	22	292	
	Tying (Thompsons)	1,600 acres#	2.5 acres	640	22	30	
	Pruning (other varieties)	4,400 acres +	0.66 acre	6,667	22	304	
P	eaches: Pruning	2,870 acres#	0.25 acre	11,480	22	522	
				27,980	22		nan-months of
	otton: Picking nions: Pulling, clipping tops and roots,	48,000 pounds †	200 pounds	240	11		from 1-15)
	and sacking	1,500 cwt.	15 cwt.	100	5	20 (from 25-31)
	pinach: Harvesting	3,945 tons	2.0 tons #	1,973	8		from 20-31)
Gr	rapes: Pruning (Thompsons)	400 acres +	0.25 acre	1,600	11		from 1-15)
	Tying (Thompsons)	400 acres +	2.5 acres	160	11		from 1-15)
	Pruning (other varieties)	1,100 acres#	0.66 acre	1,667	11		from 1-15)
				5,740	22		an-months o
April A	lfalfa commercial production: Mowing						
	with tractor	2,500 acres	20 acres	125	12	11 (from 15-30)
	Raking	2,500 acres	20 acres	125	12		from 15-30)
	Shocking with rake	1,250 acres	30 acres	42	12		from $15-30$)
	Trimming	1,250 acres	10 acres	125	12		from 15-30)

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Table 3	continued.				,	
		program as	Output per	Required	Available	Required number of
Month	Crop and task	Size of task	man-day	man-days	days	workers*
April	Alfalfa (cont.)					
(cont.)	Baling with portable presses	1,000 tons	9 tons	112	12	10 (from 15-30)
(Conc.)	Baling with pickup presses	1,000 tons	6 tons	167	12	14 (from 15-30)
		15,600 acres †	8 acres	1,950	12	163 (from 15-30)
	Alfalfa on dairy farms: Mowing	1	20 acres	780	12	65 (from 15-30)
	Raking	15,600 acres †		1	12	200 (from 15-30)
	Shocking	15,600 acres #	6.5 acres	2,400		
	Hauling and stacking	16,400 tons#	4.0 tons	4,100	12	342 (from 15-30)
	Beans: Irrigating	37,707 acres*	4.0 acres#	9,427	23	410
	Melons: Hoeing (twice)	2,138 acres	5 acres	428	12	36 (from 15-30)
	Cultivating (twice)	4,276 acres+	10 acres	428	12	36 (from 15-30)
	Onions: Pulling, clipping tops and roots,					
	and sacking	9,000 cwt.	15 cwt.	600	23	27
	Peas canning: Harvesting with viners	371 acres =	0.5 acre	742	4	186 (from 25-30)
	Spinach: Harvesting	3,945 tons	2.0 tons A	1,973	15	132 (from 1-20)
	Apricots: Thinning	617 acres #	0.2 acre	3,085	12	258 (from 15-30)
				26,609	23	1,157 man-months
May	Alfalfa commercial production: Mowing					
may	with tractor	4,167 acres	20 acres	209	25	9
		4,167 acres	20 acres	209	25	9
	Raking			1	25	
	Shocking with rake	2,088 acres	30 acres	70		3
	Trimming	2,088 acres	10 acres	209	25	9
	Baling with portable presses	1,667 tons	9 tons	186	25	8
	Baling with pickup presses	1,667 tons	6 tons	278	25	12
	Alfalfa on dairy farms: Mowing	26,000 acres =	8.0 acres	3,250	25	130
	Raking	26,000 acres*	20.0 acres	1,300	25	52
	Shocking	26,000 acres =	6.5 acres	4,000	25	160
	Hauling and stacking	27,334 tons =	4.0 tons	6,834	25	274
1	Cotton: Chopping	365 acres	2.5 acres	146	25	6
	Grain hay: Mowing	10,560 acres +	8 acres	1,320	25	53
	Raking	10,560 acres#	16 acres	660	25	27
	Shocking	10,560 acres†	20 acres	528	25	22
	Melons: Thinning	6,772 acres	10 acres	678	25	28
		1			25	52
	Hoeing (twice)	6,416 acres	5 acres	1,284		
	Cultivating (twice)	8,554 acres =	10 acres	856	25	35
	Irrigating (3 times)	9,622 acres+	7.5 acres	1,283	25	52

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Table 3 continued.

Table 3	continued.					
			Output per	Required	Available	Required number of
Month	Crop and task	Size of task	man-day	man-days		workers*
May	Onions: Pulling, clipping tops and roots,					
(cont.)	and sacking	9,000 cwt.	15 cwt.	600	25	24
	Peas canning: Harvesting with viners	1,112 acres #	0.5 acre	2,224	12	186 (from 1-15)
	Sweet potatoes: Planting	767 acres#	0.6 acre	1,280	25	52
	Tomatoes: Hoeing	1,800 acres	1.0 acre	1,800	25	72
	Apricots: Thinning	618 acres #	0.2 acre	3,090	12	258 (from 1-15)
	Peaches: Thinning	6,378 acres	0.2 acre	31,890	25	1,276
				64,184	25	2,568 man-months
June	Alfalfa commercial production: Mowing					S. C. DO MASS MOSTOSTO
	with tractor	4,167 acres	20 acres	209	26	9
	Raking	4,167 acres	20 acres	209	26	9
	Shocking with rake	2,088 acres	30 acres	70	26	3
	Trimming	2,088 acres	10 acres	209	26	9
	Baling with portable presses	1,667 tons	9 tons	186	26	8
	Baling with pickup presses	1,667 tons	6 tons	278	26	11
	Alfalfa on dairy farms: Mowing	26,000 acres #	8 acres	3,250	26	125
	Raking	26,000 acres#	20 acres	1,300	26	50
	Shocking	26,000 acres#-	6.5 acres	4,000	26	154
	Hauling and stacking	27,334 tons†	4.0 tons	6,834	26	263
	Beans: Irrigating	28,280 acres #	4.0 acres #	7,070	13	544 (from 15-30)
	Cotton: Chopping	365 acres	2.5 acres	146	26	6
	Flax: Harvesting	211 acres ‡	5.0 acres	43	13	4 (from 15-30)
	Grain: Harvesting	48,154 acres ‡	8.0 acres	6,020	26	232
	Picking up and piling sacks	473,100 sacks	500 sacks	947	26	37
	Grain hay: Baling	8,985 tons	4.0 tons	2,247	26	87
	Melons: Thinning	356 acres	10 acres	36	26	2
	Howing (twice)	5,702 acres	5 acres	1,141	26	44
	Irrigating (3 times)	9,623 acres +	7.5 acres	1,283	26	50
	Onions: Pulling, clipping tops and roots,	0,000 00100	1 00100	1,200	20	4
	and sacking	10,500 cwt.	15 cwt.	700	26	27
	Tomatoes: Hoeing	1,800 acres	1.0 acre	1,800	26	70
	Apricots: Picking	11,000 tons	1,250 pounds	17,600	13	1,354 (from 15-30)
	Cutting for drying	6,900 tons	750 pounds	18,400	13	1,416 (from 15-30)
	Other dry-yard labor	6,210 tons #	**	6,831	13	526 (from 15-30)
	and land root	0,220 001157		0,001	10	JEG (110m 13-30)
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Table 3	continued.					
			Output per		1	Required number of
Month	Crop and task	Size of task	man-day	man-days	days	workers*
June	Peaches: Thinning	3,189 acres	0.2 acre	15,945	13	1,227 (from 15-30)
(cont.)	Picking freestones for shipment	30 tons	2.000 pounds	30	5	6 (from 24-30)
				96,784	26	3,723 man-months
July	Alfalfa commercial production: Mowing					
	with tractor	4,167 acres	20 acres	209	26	9
	Raking	4,167 acres	20 acres	209	26	9
	Shocking with rake	2,088 acres	30 acres	70	26	3
	Trimming	2,088 acres	10 acres	209	26	9
	Baling with portable presses	1,667 tons	9 tons	186	26	8
	Baling with pickup presses	1,667 tons	6 tons	278	26	11
	Alfalfa on dairy farms: Mowing	26,000 acres†	8 acres	3,250	26	125
	Raking	26,000 acres#	20 acres	1,300	26	50
	Shocking	26,000 acres#	6.5 acres	4,000	26	154
	Hauling and stacking	27,334 tons#	4.0 tons	6,834	26	263
	Beans: Hoeing	47,134 acres	11.	8,249	26	318
	Irrigating	56,560 acres#	4.0 acres II	14,140	26	544
	Flax: Harvesting	422 acres #	5.0 acres	85	26	4
	Grain: Harvesting	32,103 acres †	8.0 acres	4,013	26	155
	Picking up and piling sacks	315,400 sacks	500 sacks	631	26	25
	Grain hay: Baling	8,985 acres	4.0 acres	2,247	26	87
	Melons: Picking cantaloupes	205,915 crates	30 crates	6,864	17	404 (from 10-31)
	Picking honeydews	396 tons	3.5 tons	114	6	19 (from 24-31)
	Hauling honeydews	297 tonsf	5.0 tons	60	6	10 (from 24-31)
	Picking watermelons	2,702 tons	25.0 tons	109	26	5
	Hauling watermelons	2,027 tons #	8.0 tons	254	26	10
†	Tomatoes: Hoeing	1,800 acres	1.0 acre	1,800	26	70
	Apricots: Picking	11,000 tons	1,250 pounds	17,600	13	1,354 (from 1-15)
	Cutting for drying	6,900 tons	750 pounds	18,400	13	1,416 (from 1-15)
	Other dry-yard labor	6,210 tons#	**	6,831	13	526 (from 1-15)
	Figs: Picking and packing for shipping					
	(Calimyrna and first crop of Mission)	112 tons	150 pounds	1,494	13	115 (from 15-31)
		345 tons	2,000 pounds	345	26	14
				99,781	26	3,838 man-months
						next page. u

Table continued on next page.

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	3 continued.		Output per			Required number o
Month	Crop and task	Size of task	man-day	man-days	days	workers*
August	Alfalfa commercial production: Mowing					
August	with tractor	4,167 acres	20 acres	209	26	9
	Raking	4,167 acres	20 acres	209	26	9
	Shocking with rake	2,088 acres	30 acres	70	26	3
	Trimming	2,088 acres	10 acres	209	26	9
	Baling with portable presses	1,667 tons	9 tons	186	26	8
	Baling with pickup presses	1,667 tons	6 tons	278	26	11
	Alfalfa on dairy farms: Mowing	26,000 acres †		1	26	125
			8 acres	3,250		50
	Raking	26,000 acres#	20 acres	1,300	26	
	Shocking	26,000 acres#	6.5 acres	4,000	26	154
	Hauling and stacking	27,334 tons#	4.0 tons	6,834	26	263
	Beans: Hoeing	47,134 acres*	††	8,249	26	318
	Irrigating	28,280 acres#	4.0 acres II	7,070	8	884 (from 1-10)
	Flax: Harvesting	423 acres*	5.0 acres	85	26	4
	Carrots: Weeding	100 acres	++	66	9	8 (from 20-31
	Lettuce: Thinning	250 acres	0.5 acre	500	26	20
	Melons: Picking cantaloupes	88,250 crates	30 crates	2,942	26	114
	Picking honeydews	15,831 tons	3.5 tons	4,524	26	174
	Hauling honeydews	11,873 tons *	5.0 tons	2,375	26	92
	Picking Persians	4,868 tons	3.5 tons	1,391	26	54
	Hauling Persians	3,651 tons#	5.0 tons	731	26	29
	Picking casabas	1,166 tons	3.5 tons	334	26	13
	Hauling casabas	867 tons #	5.0 tons	174	26	7
	Picking watermelons	9,457 tons	25.0 tons	379	26	15
	Hauling watermelons	7,093 tons#	8.0 tons	887	26	35
	Tomatoes: Picking for canning	1,624 tons	1.0 ton	1,624	21	78 (from 6-31)
	Almonds: Knocking	634 acres +	0.4 acre	1,585	17	94 (from 10-31
	Hulling	142 tons *	400 pounds	710	17	42 (from 10-31
	Figs: Picking and packing for shipping			1	-	10 (22011 20 02
	(Calimyrna and first crop Mission)	68 tons	150 pounds	907	26	35
	Picking Kadotas	160 tons	400 pounds	800	9	89 (from 20-31
	Picking up for drying	125 tons	900 pounds	278	13	22 (from 15-31
	Drying and sorting (Calimyrna and	Two folio	Joo pounds	270	10	pr /11.0⊞ 13∞31
	Mission)	112 tons #	50	392	13	21 (from 15 21
	Grapes: Picking table grapes for shipment	300 tons	560 pounds		13	31 (from 15-3a)
	drapes. Floring capte grapes for shipment	Joo tons	500 pounds	1,072	10	83 (from 15-31

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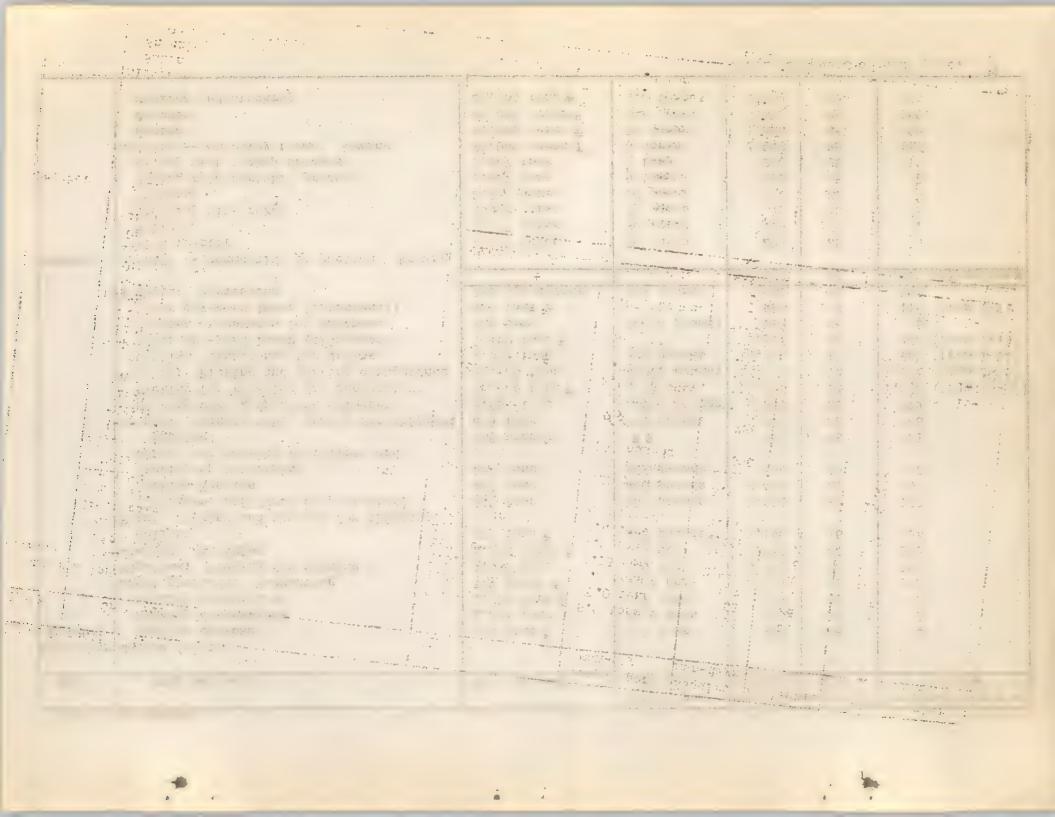
	continued.		Output per	Required	Available	Required number of
Month	Crop and task	Size of task	man-day	man-days	days	workers*
August	Peaches: Picking and sorting clingstones	40,000 tons	3,000 pounds	26,667	26	1,026
(cont.)	Cutting clingstones for drying	10,000 tons	800 pounds	25,000	26	962
(conc.)	Other dry-yard labor (clingstones)	7,500 tons#	**	8,625	26	332
	Picking freestones for shipment	1,005 tons	2,000 pounds	1,005	26	39
	Picking freestones for drying	8,000 tons	3,000 pounds		26	206
	Cutting freestones for drying	8,000 tons	2,000 pounds		26	308
	Other dry-yard labor (freestones)	5,400 tons #	**	6,210	26	239
	Picking for canning	4,000 tons	3,000 pounds	2,667	13	206 (from 15-31
	Walnuts: Harvesting	103,716 pounds	200 pounds	519	13	40 (from 15-31
	1011000			137,647	26	5,295 man-months
September	Alfalfa commercial production: Mowing					
	with tractor	4,167 acres	20 acres	209	26	9
	Raking	4,167 acres	20 acres	209	26	9
	Shocking with rake	2,088 acres	30 acres	70	26	3
	Trimming	2.088 acres	10 acres	209	26	9
	Baling with portable presses	1,667 tons	9 tons	186	26	8
	Baling with pickup presses	1,667 tons	6 tons	278	26	11
	Alfalfa on dairy farms: Mowing	26,000 acres †	8 acres	3,250	26	125
	Raking	26,000 acres #	20 acres	1,300	26	50
	Shocking	26,000 acres#	6.5 acres	4,000	26	154
	Hauling and stacking	27,334 tons +	4.0 tons	6,834	26	263
	Beans: Piling	1,025 acres*	2.0 acres	513	13	40 (from 15-30
	Threshing with stationary machine	36,905 cwt.*	35 cwt.	1,055	13	82 (from 15-30
	Threshing with pickup combine	2,970 acres #	6 acres	495	13	39 (from 15-30
	Hauling to town	63,630 cwt.	375 cwt.	170	13	14 (from 15-30
	Silage: Silo filling	1,534 tons*	5 tons	307	26	12
	Sorghum for grain-cutting by hand	69 acres #	0.75 acre	92	13	8 (from 15-30
	Carrots: Weeding	100 acres	++	215	26	9
	Lettuce: Thinning	250 acres	0.5 acre	500	26	20
	Melons: Picking cantaloupes	19,611 crates	30 crates	654	26	26
	Picking honeydews	3,166 tons	3.5 tons	905	26	35
	Hauling honeydews	2,375 tons +	5.0 tons	475	26	19
	Picking Persians	5,105 tons	3.5 tons	1,459	26	57
	Hauling Persians	3,829 tons\$	5.0 tons	766	26	30
	Picking casabas	691 tons	3.5 tons	198	26	8

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Table 3	continued.					y
			Output per			Required number of
Month	Crop and task	Size of task	man-day	man-days	days	workers*
September	Melons (cont.)					
(cont.)	Hauling casabas	518 tons #	5.0 tons	104	26	4
	Picking watermelons	1,351 tons	25.0 tons	55	26	3
	Hauling watermelons	1,013 tons #	8.0 tons	127	26	5
	Sweet potatoes: Harvesting	387 acres f	0.15 acre	2,580	26	100
	Tomatoes: Picking for canning	4,873 tons	1.0 ton	4,873	26	188
	Almonds: Knocking	1,902 acres #	0.4 acre	4,755	26	183
	Hulling	428 tons #	400 pounds	2,140	26	83
	Figs: Picking and packing for shipping					
	(Calimyrna and first crop Mission)	247 tons	150 pounds	3,294	26	127
	Picking Kadotas	480 tons	400 pounds	2,400	26	93
	Picking up for drying	250 tons	900 pounds	556	26	22
	Drying and sorting (Calimyrna and					
	Mission)	225 tons +	d d	788	26	31
	Grapes: Picking table grapes for shipment	625 tons	560 pounds	2,233	26	86
	Picking wine grapes for shipment	8,664 tons	2,600 pounds	6,665	26	257
	Picking for wineries and dehydrators	28,026 tons #	1.75 tons	16,015	13	1,232 (from 15-30)
1	Peaches: Picking and sorting clingstones	20,000 tons	3,000 pounds		13	1,026 (from 1-15)
	Cutting clingstones for drying	5,000 tons	800 pounds	12,500	13	962 (from 1-15)
	Other dry-yard labor (clingstones)	3,750 tons #	**	4,313	13	332 (from 1-15)
	Picking freestones for shipment	120 tons	2,000 pounds	120	26	5
	Other dry-yard labor (freestones)	600 tons #	**	690	6	115 (from 1-7)
	Walnuts: Harvesting	726,018 pounds	200 pounds	3,631	26	140
				105,552	26	4,060 man-months
October	Alfalfa commercial production: Mowing					
	with tractor	4,167 acres	20 acres	209	25	9
	Raking	4,167 acres	20 acres	209	25	9
	Shocking with rake	2,088 acres	30 acres	70	25	3
	Trimming	2,088 acres	10 acres	209	25	9
	Baling with portable presses	1,667 tons	9 tons	186	25	8
	Baling with pickup presses	1,667 tons	6 tons	278	25	12
	Alfalfa on dairy farms: Mowing	26,000 acres †	8 acres	3,250	25	130
	Raking	26,000 acres #	20 acres	1,300	25	52
	Shocking	26,000 acres #	6.5 acres	4,000	25	160
	Hauling and stacking	27,334 tons +	4.0 tons	6,834	25	274
				(7) - 3 - 3	A 1	nevt nece



Tab	le 3	conti	nued.

Table 3	continued.					
			Output per			Required number of
Month	Crop and task	Size of task	man-day	man-days	days	workers*
October	Beans: Piling	2,050 acres #	2.0 acres	1,025	25	41
(cont.)	Threshing with stationary machine	129,169 cwt. #	35 cwt.	3,691	25	148
	Threshing with pickup combine	5,940 acres #	6 acres	990	25	40
	Hauling to town	127,260 cwt.	375 cwt.	340	25	14
	Cotton: Picking	182,250 pounds T	300 pounds	608	25	25
	Rice: Swathing with push header	1,171 acres#	15 acres	79	25	4
	Threshing with pickup combine	781 acres [‡]	4 acres	196	25	8
	Silage: Silo filling	7,668 tons =	5 tons	1,534	25	62
	Sorghum for grain: Cutting by hand	259 acres *	0.75 acre	346	25	14
	Threshing with stationary machine	1,050 sacks †	50 sacks	21	25	1
	Harvesting with combine	1,762 acres#	5 acres	353	25	15
	Carrots: Weeding	100 acres	++	33	25	2
	Melons: Picking cantaloupes	13,074 crates	30 crates	436	13	34 (from 1-15)
	Picking honeydews	396 tons	3.5 tons	114	13	9 (from 1-15)
	Hauling honeydews	297 tons #	5.0 tons	60	13	5 (from 1-15)
	Picking Persians	1,900 tons	3.5 tons	543	25	22
	Hauling Persians	1,425 tons#	5.0 tons	285	25	12
	Picking casabas	1,857 tons	3.5 tons	531	25	22
	Hauling casabas	1,393 tons	5.0 tons	279	25	12
	Sweet potatoes: Harvesting	387 acres #	0.15 acre	2,580	25	104
	Tomatoes: Picking for canning	4,331 tons	1.0 ton	4,331	25	174
	Apricots: Pruning	1,647 acres 7	0.25 acre	6,588	25	264
	Figs: Picking and packing for shipment					
	(Calimyrna and first crop Mission)	23 tons	150 pounds	307	. 4	(from 1-5)
	Picking Kadotas	160 tons	400 pounds	800	25	
	Picking up for drying	125 tons	900 pounds	278	13	(from 1-15)
	Drying and sorting Calimyrnas and					
	Missions	113 tons #	99	396	13	(from 1-15)
	Grapes: Picking table grapes for shipment	750 tons	560 pounds	2,679	25	108
	Picking wine grapes for shipment	26,353 tons	2,600 pounds		25	811
The state of the s	Picking for wineries and dehydrators	28,026 tons #	1.75 tons	16,015	25	641
	Walnuts: Harvesting	1,037,168 pounds	200 pounds	5,186	25	208
				87,441	25	3,498 man-months
				Table cor	ntinued on	next page. No
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Table 2	continued.	T		T		
			Output per		1	Required number of
Month	Crop and task	Size of task	man-day	man-days	days	workers*
November	Alfalfa commercial production: Mowing					
Movember	with tractor	2 500 0000	20.0 acres	3.05	3.0	33 (6000 3 35)
		2,500 acres	7	125	12	ll (from 1-15)
	Raking	2,500 acres	20.0 acres	125	12	11 (from 1-15)
	Shocking with rake	1,250 acres	30.0 acres	42	12	4 (from 1-15)
	Trimming	1,250 acres	10.0 acres	125	12	11 (from 1-15)
	Baling with portable presses	1,000 tons	9 tons	112	12	10 (from 1-15)
	Baling with pickup presses	1,000 tons	6 tons	167	12	14 (from 1-15)
	Alfalfa on dairy farms: Mowing	15,600 acres T	8 acres	1,950	12	163 (from 1-15)
	Raking	15,600 acres #	20 acres	780	12	65 (from 1-15)
	Shocking	15,600 acres#	6.5 acres	2,400	12	200 (from 1-15)
	Hauling and stacking	16,400 tons ‡	4.0 tons	4,100	12	342 (from 1-15)
	Beans: Piling	1,025 acres#	2.0 acres	513	12	43 (from 1-15)
	Threshing with stationary machine	18,453 cwt.#	35 cwt,		12	(from 1-15)
	Threshing with pickup combine	990 acres #	6 acres		12	(from 1-15)
	Hauling to town	21,210 cwt.	375 cwt.	57	12	5 (from 1-15)
	Cotton: Picking	182,500 pounds +	300 pounds	609	23	27
	Rice: Swathing with push header	781 acres #	15 acres	53	15	4 (from 1-20)
	Threshing with pickup combine	781 acres +	4 acres	196	23	9
	Silage: Silo filling	1,022 tons +	5 tons	205	8	26 (from 1-10)
	Sorghum for grain: Cutting by hand	17 acres #	0.75 acre	23	12	2 (from 1-15)
	Threshing with stationary machine	700 sacks*	50 sacks	14	23	1
	Harvesting with combine	588 acres #	5 acres	118	12	10 (from 1-15)
	Carrots: Weeding	100 acres	<i>‡</i> ‡	17	12	2 (from 1-15)
	Bunching	2,200 crates	12 crates	184	11	17 (from 15-30)
	Lettuce: Cutting	45,000 crates	30 crates	1,500	23	66
	Melons: Picking casabas	604 tons	3.5 tons	173	23	8
	Hauling casabas	453 tons =	5.0 tons	91	23	4
	Sweet potatoes: Harvesting	388 acres +	1			•
	Apricots: Pruning	1	0.15 acre	2,587	23	113
	-	1,647 acres†	0.25 acre	6,588	23	287
	Grapes: Picking table grapes for shipment	825 tons	560 pounds	2,947	23	129
	Picking wine grapes for shipment	1,083 tons	2,600 pounds		23	37
	Picking for wineries and dehydrators	2,336 tons #	1.75 tons	1,335	8	167 (from 1-10)
	Walnuts: Harvesting	207,434 pounds	200 pounds	1,038	12	87 (from 1-15)
				28,495	23	1,239 man-months

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Table 3 continued.

Month	Crop and task	Size of task	Output per man-day	Required man-days	1	Required number of workers*
MOITOIT	Orop and cask	0100 01 0001				
December	Cotton: Picking	82,500 pounds T	300 pounds	275	20	14
	Carrots: Bunching	15,400 crates	12 crates	1,284	20	65
	Lettuce: Cutting	30,000 crates	30 crates	1,000	20	50
	Onions: Setting	266 acres	0.14 acre	1,900	20	95
	Apricots: Pruning	1,647 acres +	0.25 acre	6,588	20	330
	Grapes: Pruning (Thompsons)	400 acres =	0.25 acre	1,600	20	80
	Tying (Thompsons)	400 acres +	2.5 acres	160	20	8
	Pruning (other varieties)	1,100 acres-#	0.66 acre	1,667	20	84
	Peaches: Pruning	2,870 acres #	0.25 acre	11,480	20	574
				25,954	20	1,298 man-months 5

* On a monthly basis unless otherwise noted.

† Seed cotton -- for October and November, it is estimated that it takes 1,350 pounds of seed cotton to make a bale. After the frost, that is, during December, January, February, and March, this figure is estimated to be 1,500 pounds.

† Portion of job done by seasonal workers.

It should be noted that this figure, rather than representing the number of workers required, represents the number of man-months of seasonal labor required, and is derived by dividing the total number of man-days by the total number of days available for work during the month.

A Rate of work for 6-hour day.

|| Rate of work for 12-hour day.

** Dry-yard labor, other than cuttings, estimated to be as follows:

Apricots - 11 man-hours per fresh ton Peaches - 11.5 man-hours per fresh ton

† † Hoeing beans requires a total of approximately 3.5 man-hours per acre -- one-half in July, and one-half in August.

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Table 3 continued.

†† It is estimated that a total of 33 man-hours is required to weed an acre of carrots -- 20 per cent in August, 65 per cent in September, 10 per cent in October, and 5 per cent in November.

 $\int d$ It is estimated that a total of 35 man-hours per dry ton was required to handle these figs, allowance being made for the varying requirements of the two varieties.

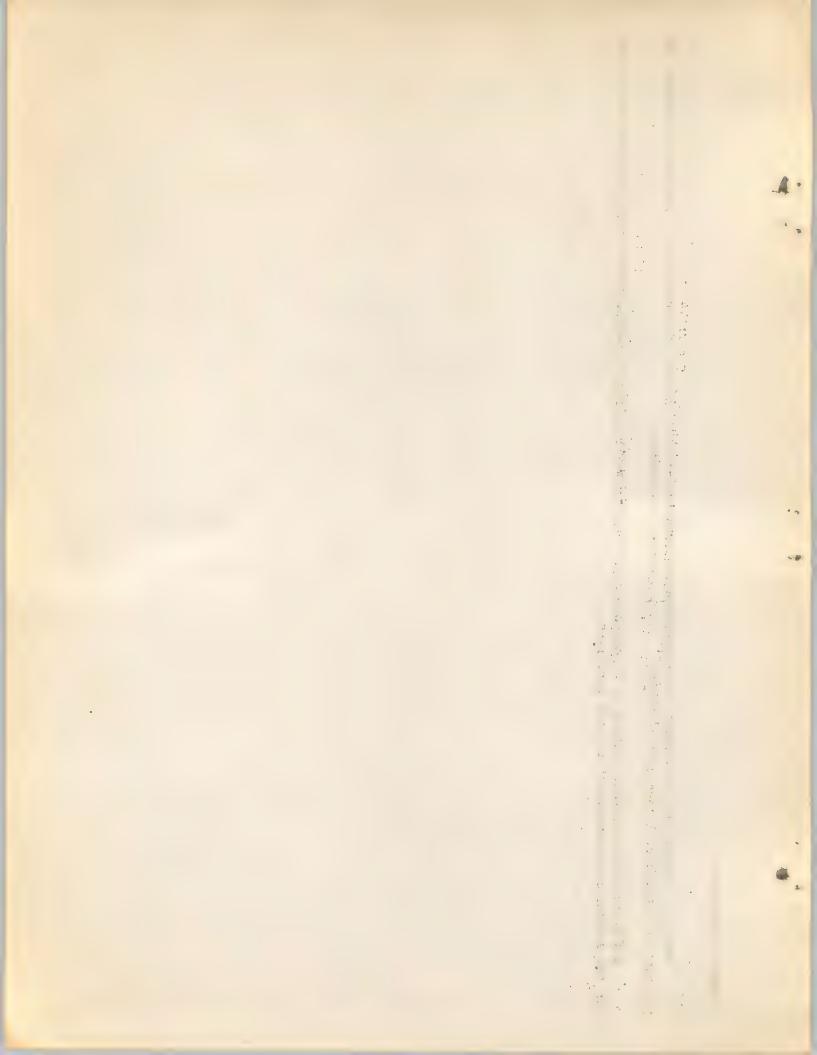


TABLE 4

Summary of Seasonal Labor Needs by Months Stanislaus County 1935

			Required man-months
Month	of seasonal labor	days	of seasonal labor
January	27,231	20	1,362
February	27,980	22	1,272
March	5,740	22	261
April	26,609	23	1,157
May	64,184	25	2,568
June	96,784	26	3,723
July	99,781	26	3,838
August	137,647	26	5,295
September	105,552	26	4,060
October	87,441	25	3,498
November	28,495	23	1,239
December	25,954	20	1,298
Total	733,398		29,571

Notes

Notes on Table 2. Data concerning "time of need" as shown in this table break down required seasonal labor into the period in which the work is performed in order to permit a subsequent determination of labor needs by months (table 3). Some operations are performed only to a limited extent with seasonal labor. For instance, only about 80 per cent of the labor in combining grain is done by seasonal workers. When a job extends over several different months, the proportionate amount for each month is shown.

The amount of work done each month is based on the cropping system followed during 1935. The allotting of amounts of work is based on findings concerning local farm practices, and required time to "make" a crop resulting from inquiry of producers, and records of carlot shipments, the latter proving helpful in fixing dates of planting and of subsequent tasks involved in producing certain crops. Proportionate amounts of output harvested each month were determined from data of local practices with respect to harvesting, and from carlot shipments of perishable products. Records of truck shipments were also used when available.

Notes on Table 3.-- Table 3 is the condensed summary of labor needs as worked out for Stanislaus County as a result of findings pertinent to 1935. The data are presented by months with the tasks which were performed in each month indicated by both crop and task. The size of the job was calculated from the data appearing in table 1 (acreage and production) and table 2 (task, time of performance, and percentage of work pertinent to a given month). The output per man-day was calculated as incidated in the foreword presenting table 3. The number of required man-days is a result of dividing the size of task by output per man-day. The available days for the different tasks involve two variables. The first is the number of days when field work is possible because of favorable weather conditions. The basis for this column was determined from a study of the monthly weather charts of the United States Weather Bureau for the years 1933, 1934, and 1935. These data indicated available days per month as follows (based on a 26-day working month without allowance for holidays):

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Notes on Table 3. -- Table 3 is the condensed summary of labor meds as worked to Stanianus County as a result of finding performed to 1956. The date are performed in each months with the tasks which were performed in each months with the tasks which were performed in each months with the billiance and tear the strength of the two calculated from the derivative of performance, and percent tear according to each time of the contemporary and transfer of work percent to a given manufacture of work per timent to a given manufacture of work per timent to a given manufacture. a si avat-dan letiuper to rammun ball S. The number of required mat-day are such different to randated to the such as the development of the development of the such as the development of the such as olde those off . wab-new way during we hast to onto and amblish to these the different tacks involve two variables. He first is the number of days shud Cheld work is suscible herauge of favelable monther conditions. The boats for this one to the Otions are determined from a study of the monthly weather charts of the united State

Month	Available days	Length of work day	Month	Available days	Length of work day
January	20	hours 9	T7	9.0	hours
February March	22	9	July August September	26 26 26	10 10 10
April May	23 25	10 10	October November	25 23	10 9
June	26	10	December	20	9

Source of data: Based on precipitation records of the Modesto station of the United States Weather Bureau for the years 1933, 1934, and 1935.

The second factor influencing the number of available days was the size of the job. If the output was only a few cars, then the number of days was limited to the time needed to get out those cars efficiently. If a field operation had to be performed in a period less than the number of available days in the month, then the specific number of days was noted. These restrictions are shown in parentheses. For example, in July, picking apricots was limited to the first half of the month, picking cantaloupes to the last twenty days, etc.

The totals of table 3 show the total required man-days of needed seasonal labor, the available days for field work during the month, and the necessary number of men (as defined in the opening paragraph of table 3) required on a monthly basis to care for the tasks ordinarily performed by seasonal workers.

In an area such as Stanislaus County, involving a variety of annual crops, the findings as set forth in this report are bound to fluctuate materially from year to year, because of the market outlook upon what and how much acreage is planted, and when it is planted; because of variable seasonal conditions affecting yields, time of performing operations, and available days; and because of harvesting operations on certain crops being speeded up to supply a good market, or retarded to avoid a poor one, resulting in marked variations in the need for harvest labor.

			To despeed to	
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Source of data: Based on precipitation records of the Modesto station of the United States Names Bureau for the years 1905: 1984, and 1985.

The second factor influencing the number of available days was the size of the job. If the output was only a few cars, then the number of days was limited to the time needed to get out those ours efficiently. If a field operation had to be performed in a period less than the number of available days in the mean, then that specific number of days was noted. These weathetican are shown in perenthances. For example, in July, ploking apriods was limited to the first helf of the morth, ploked ing cantalouses to the lest twenty days, ote.

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